

Date prepared: 01.06.2013

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Version No.: 4



Safety Data Sheet

SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier:

HIGÉN+99

1.2 Relevant identified uses of the mixture and uses advised against: Drinking water disinfectant, surface disinfectant and detergent, pool water disinfectant for professional use.

Biocidal product, product type: PT 2, PT 4, PT 5

Provisional authorisation: PT1 according to authorisation HU-2020-IDEIGLENES-1-00019 (hand sanitizer)

Antibacterial spectrum: **bactericidal, fungicidal, virucidal, algicidal.**

1.3 Details of the supplier of the safety data sheet:

Manufacturer:

C.S.G. Kft. (LLC.)

H-2131 Göd, Dózsa. út 31.

1.3.1 Name of responsible person: István Körmendi

1.3.2 Sole distributor:

Ecowian Magyarország Kft. ('Ecowian Hun LLC.')

H-1025 Budapest Törökvész lejtő 18/b

Site: H-2051 BIATORBÁGY, VEREBÉLY LÁSZLÓ UTCA 2. CTP IPARI PARK +3630 978 9007 info@ecowian.com

1.4 Emergency telephone No.:

Toxicological Information Service in Healthcare (ETTSZ by its Hungarian acronym)

H-1096 Budapest, Nagyvárad tér 2.

Tel: +36 1 476 6464, +36 80 201 199 (0-24 h)

SECTION 2: IDENTIFICATION OF HAZARD

2.1 Classification of the mixture:

Classification based on Regulation EC 1272/2008 (CLP):

Not classified as dangerous mixture.

Warning H-statements: none.

2.2 Label elements:

Active substance contents: Active chlorine: produced *in situ* by the reaction of hypochlorous acid and sodium hypochlorite

Active chlorine: minimum 35 mg/100 mL. CAS No.: not applicable EC No.: mixture In addition to storage indicated in the instructions for use, the active substance content at the end of the shelf life is 17% of the initial active substance content.

Warning H-statements: none.

Precautionary P-statements: none.

Must not mixed with other cleaning and disinfecting agents!

Biocidal product, the provisions of Section 20 of joint Decree 38/2003, (07 July) ESzCsM-FVM-KvVM of the Minister of Health, Social and Family Affairs, Minister of Agriculture and Rural Development, and Minister of Environment and Water shall also be followed when packaging/labelling of the product.

2.3 Other hazards:

The mixture has no other known adverse health or environmental effects.

The product does not meet the criteria for PBT or vPvB materials.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Material: not applicable

3.2 Mixture: industrial surface cleaner and disinfectant, drinking water disinfectant, pool water disinfectant prepared from water taken from the urban drinking water network by treatment with electrolysis with the addition of chloride ion-containing additives (electrochemically oxidized water).

Active substance contents: Active chlorine: produced *in situ* by the reaction of hypochlorous acid and sodium hypochlorite

Active chlorine: minimum 35 mg/100 mL. CAS No.: not applicable EC No. mixture

Precursor: 0.1-3% sodium chloride CAS No.: 7647-14-5 EC/EINECS No.: 231-5983

For the full text of the H-statement(s) see Section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

INGESTION:

What should be done:

- Wash the mouth of the injured person with water and make him/her to drink water!
- In case of complaints, consult a doctor!
- Do not give anything by mouth to an unconscious person or induce vomiting in his/her case!
- In case of vomiting, lower the head of the injured person.

INHALATION:

What should be done:

- Move the injured person to fresh air, loosen his/her clothes and place him/her in a comfortable position!
- if necessary, use artificial respiration!
- In case of complaint, consult a doctor!

SKIN CONTACT:

What should be done:

- Remove contaminated clothing!
- Clean the skin surface with plenty of soapy running water.
- In case of complaint, consult a doctor!

EYE CONTACT:

What should be done:

- Rinse the eyes with water by pulling the edges of the eyelids apart and moving the eyeball at the same time (for at least a quarter of an hour)!
- In case of complaint, consult a doctor!

4.2 Most important symptoms and effects, both acute and delayed:

No data is available.

4.3 Indication of any immediate medical attention and special treatment needed:

No data is available.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

5.1.1 Suitable extinguishing media:

The product itself is not combustible. In case of fire, use an extinguishing agent suitable for the surrounding fire.

5.1.2 Unsuitable extinguishing media:

Not known.

5.2 Special hazards arising from the substance or mixture:

The formation of hazardous decomposition products is highly dependent on the combustion conditions.

A complex mixture of solid, liquid and gaseous substances found in the air can be formed, such as carbon monoxide, carbon dioxide, and other unidentified organic compounds.

5.3 Advice for firefighters:

Full protective clothing and self-contained breathing apparatus complying with the specifications should be worn.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 For non-emergency personnel:

Only trained personnel wearing appropriate personal protective equipment and having a profound knowledge in the necessary measures may be present at the scene of an accident.

6.1.2 For emergency service providers:

None known.

6.2 Environmental precautions:

The mixture, its unused residue, and its packaging must not be allowed to reach ground water, water course or soil, as well as the undiluted product must not be allowed to reach the sewage system.

The product released into the environment and the waste generated must be disposed of in accordance with the applicable environmental protection regulations. If an incident involving pollution has occurred, the competent authority must be notified immediately.

6.3 Methods and material for containment and cleaning up:

The mixture should be soaked up with an inert absorbent material (e.g. sand, silica gel, acid binder, general binder, sawdust) and the collected waste should be stored in a suitable, labelled, sealable waste container until proper removal/disposal.

6.4 Reference to other sections:

For more detailed information see sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

Precautions for safe handling:

Adherence to standard hygiene procedures is mandatory.

Must not come into direct contact with food. Food or drink contaminated with the product must not be used for human consumption.

Technical measures:

No special instructions.

Fire and explosion prevention regulations:

No special instructions.

7.2 Conditions for safe storage, including any incompatibilities:

Conditions for safe storage:

Store in original, intact, unopened, properly labelled packaging, in a well-ventilated, cool, dry place, protected from direct sunlight and snow.

To be stored separately from food.

Follow the instructions on the label!

Incompatible materials: none known.

Type of material used for packaging/storage: no special requirements.

7.3 Specific end use(s):

No special instructions are available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Workplace exposure limits are based on joint Decree 25/2000 (30 September) EüM-SZCSM of the Minister of Health and the Minister of Social and Family Affairs:

Chlorine (CAS No.: 7782-50-5): AC value: -; PC value: 1.5 mg/m³

DNEL		Route of exposure	Exposure frequency	Note
Employee	User			
no data	no data	Dermal	Short (acute) Prolonged (repeated)	no data
no data	no data	Inhalation	Short (acute) Prolonged (repeated)	no data
no data	no data	Oral	Short (acute) Prolonged (repeated)	no data

PNEC			Exposure frequency	Note
Water	Soil	Air		
no data	no data	no data	Short (single occasion) Prolonged (continuous)	no data
no data	no data	no data	Short (single occasion) Prolonged (continuous)	no data
no data	no data	no data	Short (single occasion) Prolonged (continuous)	no data

8.2 Exposure controls:

pursuant to Paragraph (6) Section 7 of the joint Decree 25/2000. (30 September) EüM-SZCSM of the Minister of Health and the Minister of Social and Family Affairs, in the case of

hazardous substances not regulated by limit value, the employer is obliged to reduce the exposure level to the lowest level expectable according to scientific and technical standards, at which level the hazardous substance has no harmful effects on health in accordance with the prevailing scientific state of the art.

8.2.1 Appropriate technical controls:

While working, appropriate precautions should be taken to avoid spillage, contact with floors, clothing, skin and eyes.

Ensure adequate ventilation.

8.2.2 Personal precautions, such as personal protective equipment:

1. Eye/face protection: in case of risk of contact with eyes, wear safety goggles in accordance with regulations (EN 166).

2. Skin protection:

a, Hand protection: protective gloves in accordance with regulations are recommended (EN 374)

b, Other: normally not required

3. Respiratory protection: normally not required.

4. Thermal hazards: not known.

8.2.3 Environmental exposure controls:

No special instructions.

The requirements under section 8 apply to conditions that can be considered as average, to professional activity and to the intended conditions of use. If work is carried out in different circumstances or in exceptional circumstances, it is recommended to decide on the additional necessary actions and on the personal protective equipment with the involvement of an expert.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Parameters	Test Method:	Note
1. External characteristics:	colourless or in higher concentrations slightly yellowish liquid	
2. Odour:	characteristic to the product, chlorine	
3. Odour threshold:	no data	
4. pH value:	2-6	
5. Melting/freezing point:	no data	
6- Initial boiling point and boiling range:	no data	
7. Flash point:	not combustible	
8. Vaporisation rate:	no data	

9. Flammability (solid, gas) no data
10. Lower/upper ignition limit no data
or explosion range:
11. Vapour pressure: no data
12. Specific gravity: 1.05 - 1.1 g/cm³
13. Solubility: freely soluble in water
14. Partition coefficient: n-
octanol/water: no data
15. Auto-ignition
temperature: aqueous solution, non-
flammable
16. Decomposition
temperature: no data
17. Viscosity: no data
18. Explosive hazard: aqueous solution, not
explosive
19. Oxidizing properties: no data

9.2 Other information:

Active chlorine content: min. 35 mg/L

ORP value: >+800 mV vs. Ag./AgCl

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

Not known.

10.2 Chemical stability:

Product is stable under normal temperature and general conditions.

10.3 Possibility of hazardous reactions:

None known.

10.4 Conditions to avoid:

None known.

10.5 Incompatible materials:

None known.

10.6 Hazardous decomposition products:

None known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

Acute toxicity: not known.

Skin corrosion/irritation: not known.

Serious eye damage/eye irritation: not known.

Respiratory or skin sensitization: not known.

Germ cell mutagenicity: not known.

Carcinogenicity: not known.

Reproductive toxicity: not known.

Specific target organ toxicity - single exposure (STOT): not known. STOT - repeated exposure: not known. Aspiration hazard: not known.

11.1.1 Summary of the results of clinical trials:

No data is available.

11.1.2 Relevant toxicological data:

No data is available.

11.1.3 Information on likely routes of exposure:

Ingestion, inhalation, skin contact, eye contact.

11.1.4 Symptoms related to the physical, chemical and toxicological characteristics:

No data is available.

11.1.5 Delayed and immediate effects and also chronic effects from short and long term exposure:

No data is available.

11.1.6 Effects resulting from interactions:

No data is available.

11.1.7 Lack of individual data:

No information available.

11.1.8 Other information:

No data is available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

No ecotoxicological data are available.

The solution prepared with the electrolyzer is not dangerous for the environment..

12.2 Persistence and degradability:

No data is available.

12.3 Bioaccumulative potential:

No data is available.

12.4 Mobility in soil:

No data is available.

12.5 Results of PBT and vPvB assessment:

No data is available.

12.6 Other adverse effects

No data is available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

The treatment and disposal of product residues is regulated by Act CLXXXV of 2012, Government Decree 225/2015 (07 August) and Decree 72/201 (27 August) VM of the Minister of Water.

13.1.1 Product disposal information:

The treatment of product residues and packaging waste is governed by the relevant legislation.

Recommendation:

Smaller amounts of the agent can be diluted with plenty of water and poured out. However, larger quantities should be disposed of in accordance with local authority requirements.

Waste list code:

An appropriate waste list code cannot be assigned to the product as it can be identified by the user-defined mode of use. The waste list code may be given subsequent to consultation with a disposal specialist within the Community.

13.1.2 Information on packaging disposal:

Dispose of in accordance with applicable regulations.

Only completely emptied packaging can be recycled.

The emptied container can be disposed of with household waste.

13.1.3 Physical/chemical properties that may affect waste treatment options:

None known.

13.1.4 Instructions concerning wastewater treatment: None known.

13.1.5 Optional special precautions for waste management methods:

No data is available.

SECTION 14: TRANSPORT INFORMATION

It is not considered as hazardous consignment!

14.1 UN No.:

None.

14.2 UN proper shipping name:

None.

14.3 Transport hazard class(es):

None.

14.4 Packing group:

None.

14.5 Environmental hazards:

No relevant information.

14.6 Special precautions concerning the user:

No relevant information.

14.7 Transport in bulk according to Annex II of MARPOL convention and the IBC Code:
Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

1. REACH international regulation:

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, and amending Directive (EC) No. 1999/45, and Council Regulation (EEC) No. 793/93, Regulation (EC) No. 1488/94 on Safety, Council Directive (EEC) No. 76/769, repealing Commission Directives (EEC) No. 91/155, (EEC) No. 93/67, No. 93/105, and (EC) No. 2000/21, and its amendments

2. CLP international regulation:

REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives (EEC) No. 67/548 and (EC) No. 1999/45, and amending Regulation (EC) No. 1907/2006, and its amendments

3. **COMMISSION REGULATION (EU) No. 2015/830 of 28 May 2015** amending Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)

4. National regulations on dangerous substances:

Act XXV of 2000 on Chemical Safety and its amendments, and **Decree 44/2000 (27 December) EüM of the Minister of Health** on the detailed rules of certain procedures and activities related to hazardous substances and dangerous preparations

5. National waste regulations: **Act CLXXXV of 2012** on Waste, **Government Decree 225/2015 (07 July)** on the detailed rules for certain activities related to hazardous waste

Decree 72/2013 (27 August) VM of the Minister of Water on the list of wastes

6. National regulations related to water pollution:

Government Decree 220/2004 (21 July) and its amendments

7. National occupational safety regulations:

Act XCIII of 1993 on Occupational Safety and Health, its amendments and the relevant decrees of the Ministries of Welfare and Labour

8. National regulations for chemical safety in workplaces:

joint Decree 25/2000 (30 September) EüM-SZCSM of the Minister of Health and Minister of Social and Family Affairs and its amendments.

9. Specifications for biocidal products.

REGULATION (EU) No. 528/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 22 May 2012 concerning the placing on the market and use of biocidal products

Government Decree 316/2013 (28 August) on certain rules for the authorization and placing on the market of biocidal products

and **joint Decree 38/2003 (07 July) ESzCsM-FVM-KvVM of the Minister of Health, Social and Family Affairs, Minister of Agriculture and Rural Development, and Minister of Environment and Water** on the conditions for the production and placing on the market of biocidal products

License number granted by the Office of the National Chief Medical Officer's: JKF/11271-5/2016

15.2 Chemical Safety Assessment: no information available.

SECTION 16: OTHER INFORMATION

Details of the revision of the safety data sheet:

The Safety Data Sheet has been revised in accordance with Regulation (EU) No. 2015/830 (Sections 1-16). The antimicrobial spectrum of the product has been modified.

Content changes compared to the previous version: sections 1.2, 2.2, 6.2, 6.3, 7.1, 7.2 and 15.1 of the safety data sheet have been modified.

Full text of abbreviations used in the safety data sheet:

DNEL: Derived no effect level. PNEC: Predicted no effect concentration. CMR effects: carcinogenicity, mutagenicity and reproductive toxicity. PBT: persistent, bioaccumulative and toxic. vPvB: very persistent and very bioaccumulative. n.d.: not determined. n.a.: not applicable. AC value: permissible average concentration. PC value: permissible peak concentration (maximum permissible air pollution for a short time). MC value: maximum concentration. VOC: Volatile Organic Compound.

Literature/sources used:

Previous version of the safety data sheet (16.11.2016, version 3)

Full text of H-statements referred to under sections 2 and 3 of the safety data sheet: none.

Advice on further training: no data available.

This safety data sheet has been prepared on the basis of the documentation provided by the product manufacturer/supplier and complies with the relevant regulations and standards.

The information, data and recommendations contained in this safety data sheet, which we consider to be accurate, correct and professional at the time of publication, are the work of bona fide professionals. During the use and handling of this product, additional considerations not mentioned here may be necessary in certain circumstances.

It is the responsibility of the operator to consider the reliability of the information contained in the safety data sheet and to determine the specific use and handling of the product. The user must comply with all effective legal regulations that apply to the activity performed with the product.



TECHNICAL TRANSLATION

Prepared by the Hungarian Office
for Translation and Attestation Ltd.

This translation shall in no way replace attested
translation.
